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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,651	11/30/2005	Axel Nickel	000137.00044	3725
	7590 09/06/2007 /ITCOFF, LTD.	EXAMINER		
1100 13th STREET, N.W. SUITE 1200 WASHINGTON, DC 20005-4051			EWALD, MARIA VERONICA	
			ART UNIT	PAPER NUMBER
			1722	
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			09/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

·	Application No.	Applicant(s)
	10/538,651	NICKEL ET AL.
Office Action Summary	Examiner	Art Unit
	Maria Veronica D. Ewald	1722
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period versilium to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 10 Ju	action is non-final.	
Disposition of Claims		
4) ⊠ Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-17 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 10 June 2005 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	accepted or b) ☐ objected to drawing(s) be held in abeyance. Section is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		•
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/05&10/05	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal P 6) Other:	ate

### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

13. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

Claims 1 – 4, 6, 7 – 8, 9 – 10, 12 and 14 – 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Allen, et al. (U.S. 5,445,509). Allen, et al. teach a melt-blow head comprising: a rectilinear row of nozzle bores arranged in a nozzle bar (item 13 - figure 1; column 3, lines 39 - 55), the nozzle bores configured to produce endless filaments formed from a melt (column 3, lines 45 - 47) and associated with blowing slots in the form of longitudinal slots (items 55 and 56 - figure 5) of two slot plates for feeding blowing air at an angle to the nozzle bores (items 43 and 44 - figure 5) to which the melt is fed through a distributor (item 22 – figure 5), wherein the nozzle bar is fixed in a defined position with respect to the slot-plates and removable therefrom in a vertical direction (figure 5, column 5, lines 1 – 16, 60 – 68); the distributor being supplied with the melt through a feeding pipe (item 17 - figure 1), the feeding pipe leading from a lateral inlet via a redirecting means in a vertical direction to the distributor (figures 1 and 3); and the inlet connected to a melt pipe through a removable connector (item 17 – figure 5; column 4, lines 25 – 37); wherein the nozzle bar is laterally enclosed by air feed blocks with horizontal and vertical walls (figure 5), said air feed blocks being

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arranged parallel to the row of nozzle bores (figures 1 and 5) and contacted by the nozzle bar with a step (item 42 - figure 5) with horizontal and vertical legs (figure 5), a slot-plate in contact with each air feed block against a stop and leaving open a space with respect to the air feed block, for supplying the blow air to the longitudinal slots (figure 5); wherein the melt pipe is provided in the region of the connector with a shut-off valve (item 15 - figure 5; column 4, lines 25 - 35); wherein the melt pipe is movable with the connector with the latter removed, in relation to the inlet (figure 5; column 4, lines 25 - 35).

With respect to claims 6, 7 - 8, 9 - 10, 12 and 14 - 17, Allen, et al. further teach that the slot-plates extend in a concave rounded section on a side opposite the nozzle bar (figures 5 - 6); wherein the melt pipe is provided in the region of the connector with a shut-off valve (item 15 - figure 5); wherein the melt pipe is movable with its connector, with the latter removed, in relation to the inlet (figure 5; column 4, lines 25 - 35); wherein there is a second distributor through which melt is fed (figure 2; column 4, lines 5 - 25).

## Claim Rejections - 35 USC § 103

14. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

<sup>(</sup>a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5, 11 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allen, et al. in view of Allen (U.S. 6,210,141). Allen, et al. teach the characteristics previously described but do not teach that there is a deformable seal with the connector.

In a method to produce filaments, Allen teaches the use of a modular die assembly with a quick-change die tip or nozzle. The assembly can be comprised of one unit or several units depending on the size and number of filaments being extruded (figure 1; column 9, lines 10 – 20). Furthermore, the reference teaches that O-rings may be mounted around the passages extending from the distributor or manifold (item 11 – figure 2; column 9, lines 18 – 19) into the die body. The O-rings prevent any leakage of material from the manifold, since it is known to one of ordinary skill in the art that O-rings are typically used as seals to deter leakage and/or maintain a seal where a gap or opening may occur. This suggests the use of a deformable seal with the connector.

Thus, it would have been obvious to one of ordinary skill in the art at the time of the Applicant's invention to modify the apparatus of Allen, et al. with the O-rings of Allen, placed at the connector for the purpose of preventing any leakage of melt as the polymer is fed from the extruder or other source through the feed pipe into the distributor.

#### Conclusion

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maria Veronica D. Ewald whose telephone number is 571-272-8519. The examiner can normally be reached on M-F, 8 - 4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Yogendra Gupta can be reached on 571-272-1316. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MVE

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